3. Constanza

Program Name: Constanza.java **Input File: constanza.dat**

Constanza loves art, especially using the seven colors of the rainbow, indicated by the acronym, ROYGBIV *(red, orange, yellow, green, blue, indigo, violet)*. She has collected numerous pieces of abstract "rainbow" art, and has scanned each image into a file that contains a listing of the rainbow colors of each pixel. For one of her art pieces, the first part of the listing looks like this *(shown here in three columns, but all in one column in the actual listing)*, and continues for many more lines:

```
yellow          green           green
orange          blue            red
green           yellow          violet
indigo          red             yellow
green           blue            indigo
blue            blue            red
orange          indigo          red
```

She wants to analyze the pixel frequency of each color for this art piece, creating a horizontal bar graph that shows this, a display that looks like the one shown below, with the rainbow colors listed in order, each followed by the number of stars indicating the frequency of that color in the art piece.

```
red    ****
orange **
yellow ***
green  ****
blue   ****
indigo ***
violet *
```

Input: A vertical, single column listing of only rainbow colors (red, orange, yellow, green, blue, indigo, violet) in the format as shown above, except with each on one line, and no multiple columns. The file listing is for one and only one art piece. There will be at least one instance of each color.

Output: A single horizontal bar graph display representing the frequency of the colors in the data file. Both the color labels and bars of stars must be left-aligned, and spaced exactly as shown above.

Sample input and output shown in example above.